The Connecticut General Assembly

Joint Committee on Legislative Management

Donald E. Williams, Jr.
Senate President Pro Tempore

Martin M. Looney, *Senate Majority Leader*
John McKinney, *Senate Minority Leader*

James P. Tracy
Executive Director

J. Brendan Sharkey
Speaker of the House

Joe Aresimowicz, *House Majority Leader*
Lawrence F. Cafero, Jr., *House Republican Leader*

REQUEST FOR INFORMATION

CT-N TELEVISION BROADCAST CAMERAS, ROBOTICS, AND CONTROLS

RFI NUMBER	**JCLM14REG0043**		
RFI ISSUANCE DATE:	**March 27, 2014**		
INFORMATIONAL DOCUMENTATION DUE DATE:	**April 23, 2014**	**TIME:**	**12:00 pm (noon)**

Suite 5100 * Legislative Office Building * Hartford, CT 06106-1591 * (860) 240-0100 * fax (860) 240-0122 * jclm@cga.ct.gov

TABLE OF CONTENTS

PART A CONTRACT INFORMATION 1
A.1 Executive Summary 1
A.2 Official Agency Contact Information 1
A.3 Schedule 1
A.4 RFI Disclaimer 2
PART B SCOPE OF WORK 2
B.1 Current Broadcast Equipment 2
B.2 New Cameras and Associated Robotics 3
PART C INFORMATIONAL DOCUMENTATION REQUIREMENTS 4
C.1 Administrative Documentation 4
PART D EVALUATION OF INFORMATIONAL DOCUMENTATION 5
D.1 Mandatory Requirements 5

ATTACHMENTS

Attachment A Pricing Page

PART A CONTRACT INFORMATION

A.1 Executive Summary

The Connecticut General Assembly (CGA) is the legislative branch of government of the State of Connecticut. Through statutory enactments, the Joint Committee on Legislative Management (JCLM) is responsible for the coordination and management of legislative affairs and the supervision and approval of any and all legislative expenditures.

The JCLM is comprised of the top legislative leaders from each political party and works through a subcommittee system. The Personnel Policies Subcommittee is comprised of the President Pro Tempore of the Senate, the Speaker of the House of Representatives, and the Majority and Minority Leaders of each chamber. The Subcommittee is responsible for establishing legislative personnel policies, guidelines, regulations, and salary schedules, and also approves legislative expenditures exceeding $50,000.

The JCLM, on behalf of the CGA, is seeking informational documentation on behalf of the Connecticut Network (CT-N) for the selection of television broadcast cameras, robotics, and controls to record and/or broadcast legislative events from the Hearing Rooms in the Legislative Office Building, the House and Senate Chambers in the Capitol, and miscellaneous remote locations in high-definition. Respondents may provide informational documentation on all or part of this Request for Information (RFI), and may submit multiple solutions across manufacturers. Respondents are not required to submit on every portion of this RFI.

A.2 Official Agency Contact Information

Mail: Attention: Rachel A. Bishop
CGA Contracting Group
Office of Legislative Management
Legislative Office Building; Room 5100
300 Capitol Avenue
Hartford, CT 06106

Email: CGAContracting@cga.ct.gov
Telephone: (860) 240 – 0100 **Fax**: (860) 240 – 0122

A.3 Schedule

This Request for Information (RFI) is posted on the portal website which can be found at the following address: http://www.biznet.ct.gov/scp_search/BidResults.aspx?groupid=128.

A.3.1 Issue the RFI

The RFI will be issued by March 27, 2014.

A.3.2 Deadline for Questions

All questions must be submitted in writing by April 7, 2014. These submissions must be sent via email to CGAContracting@cga.ct.gov or addressed to the attention of CGA Contracting Group at the Office of Legislative Management, Legislative Office Building, 300 Capitol Avenue, Room 5100, Hartford, CT 06106-1591.

A.3.3 Amendments to Request for Information

All amendments to the RFI and response to written questions will be published no later than 5:00 pm on April 11, 2014.

A.3.4 Submission Delivery

All sealed Submissions must be delivered by 12:00 noon on April 23, 2014, to the CGA Contracting Group at the Office of Legislative Management, Legislative Office Building, 300 Capitol Avenue, Room 5100, Hartford, CT 06106-1591.

Prior to submitting Informational Documentation, each Respondent shall examine the RFI and may visit the site of the work. Each Respondent shall fully inform itself prior to submitting Informational Documentation as to the existing conditions and limitations under which the work is to be performed, and shall include in its Submission a sum to cover the cost of items necessary to perform the work as set forth in this RFI. No allowance will be made to a Respondent because of lack of such examination or knowledge. The submission of Informational Documentation will be considered conclusive evidence that the Respondent has made such an examination.

A.3.5 Presentations

Respondents may be contacted for a time to make presentations to provide an overview of their Informational Documentation, answer questions, and/or provide clarifications. **Respondents may also be asked to provide a**

demonstration of the equipment, and to leave the equipment on site with CT-N for approximately 2 weeks so that CT-N may perform its own evaluation. Further, Respondents may be asked to come on site for a follow-up presentation with other manufactures or integrators to provide a demonstration of the equipment in an integrated manner.

A.4 RFI Disclaimer

This RFI is being issued solely for informational planning purposes and does not constitute a solicitation. All information provided in response to this RFI that is marked proprietary will be handled accordingly. Responses to this RFI will not be returned. Responses to this notice are not considered offers and cannot be accepted to form a binding contract. Respondents are solely responsible for the accuracy of all information associated with responding to this RFI.

PART B SCOPE OF WORK

The Office of Legislative Management is soliciting responses to this Request for Information (RFI) on behalf of CT-N for the selection of broadcast equipment to improve network reliability and meet current and future operational needs. Section B.1 below details the broadcast equipment that CT-N currently uses. Section B.2 below details the new equipment CT-N is seeking.

B.1 Current Broadcast Equipment

B.1.1 Camera System – Legislative Office Building, Capitol Building and Emergency Operations Center

a. Cameras
- 28 - Sony DXC-D30/35WSL with quick release mounts
- 1 - Sony DXCD50WSH with quick release mount

b. Power Supplies
- 37 - Tripp Lite PR-3a camera power supplies (12VDC)
- 1 - Tripp Lite PW-PR-7 camera power supply (13.8VDC)
- 38 - Crestron CNWPS-75 pan/tilt/zoom (P/T/Z) power supply (24VDC)

Note: Camera and P/T/Z power supplies are co-located remotely from cameras

c. Lenses
- 28 - Fujinon A18x9BMD Lenses (modified to work with Crestron Control Interface)
- 1- Fujinon A20x8.6WD Lens (modified to work with Crestron Control Interface)

B.1.2 Robotics System – Legislative Office Building, Capitol Building and Emergency Operations Center

a. P/T/Z Heads
- 37 Crestron CPC-CAMI P/T/Z Heads with Cresnet Control Interface
- 1 Crestron C2N-CAMIDSPT P/T/Z Head with Cresnet Control Interface

b. Operator Controls
- 2 - Crestron LC-3000/B, 9.6inch Touchscreen Control Panel
- 1 - TPS-3000, 6.4 inch tilt Touch Panel
- 3 - C2N-CAMIDJ Digital Joystick Camera Controllers with 12 camera presets
- 1 – CPC2000A 5.7 inch Touchscreen with joystick controls
- 3 – Kramer VS-601XLM Vertical interval switchers for operator preview of cameras

c. Control System
- 2 - Crestron Pro2 Professional Dual Bus Control Systems
- One primary; one back-up.
- 1 - Crestron MC2E Compact Control Systems
  Connected to Crestron Pro2 Control system in the CT-N Control Room

B.1.3 Portable Production System – Cameras and Robotics

a. Cameras
- 3- Sony DXCD30WS

b. Power Supply
- 1-Telemetrics PS-RM-4

c. Lenses

- 3- Fujinon A19x8.7 bmd-d24

d. P/T/Z Heads
- 3 – Telemetrics PT-HP

e. Control System
- 3 – Telemetrics TM9255-B Base Stations
- 1 – Telemetrics CP-RWQ-S

B.1.4 Approximate Existing Cable Lengths

a. In the Legislative Office Building, the video, camera controls, and P/T/Z cables are home runs from each camera to the CT-N Control Room. The approximate existing cable lengths are as follows, by Hearing Room (HR):
- HR1A – 385 feet
- HR1B – 180 feet
- HR1C – 195 feet
- HR1D – 125 feet
- HR1E – 235 feet
- HR2A – 400 feet
- HR2B – 195 feet
- HR2C – 210 feet
- HR2D – 140 feet
- HR2E – 250 feet

b. In the Capitol Building, the video, camera controls, and P/T/Z cables are run from each camera to an electrical/data closet where they convert from copper cable to fiber that runs to the CT-N Control Room. The approximate existing copper cable lengths from camera to data close are as follows:
- House Chamber – 150 feet
- Senate Chamber – 200 feet

c. The existing cable types are:
- Video cable – Belden 88281
- P/T/Z cable – Cresnet - NP

B.2 New Cameras and Associated Robotics

The **minimum specifications** for the new cameras and associated robotics are as follows:

a. Cameras

Image Device:	Quantity three (3) CCD/MOS 1/3-type – 1.0 Megapixels
Video Format:	1080/59.94i, 480/59.94i
Video Output:	HD/SD-SDI (BNC)
Resolution (H):	800 TV lines
Illumination:	7 lux or better
Video S/N:	50dB
Gen Lock In:	Black Burst, Tri-Level sync (BNC)
White Balance:	Auto, 3200K, 5600K, R gain, B gain
Black Balance:	Auto, R pedestal, B pedestal
Color Bars:	Full or SMPTE
ND Filter:	Clear, 1/4, 1/16, 1/64
Gain:	Auto, 0 dB to 18 dB
Lens:	18x with remote zoom, focus, iris control
Focus:	Auto, manual
Power:	2 VDC
Remote Control:	Pan, tilt, zoom, focus, iris, and full CCU functions including, but not limited to, white balance, black balance, gain and pedestal
Mounting:	Quick release mount for ceiling, wall and tripod

b. Pan/Tilt/Zoom Heads

Pan Range:	300 degrees
Tilt Range:	190 degrees
NC Rating:	NC35

Control:	IP/RS-422
Pre-set Positions:	50

c. Remote Control Panels

Number of Cameras:	4
Number of Presets:	12 per camera
Control:	IP/RS-422
CCU Control:	Full CCU functions including, but not limited to, white balance, black balance, gain and pedestal
Focus Control:	Separate control – Specify if joystick, wheel or other type
Preview Monitor:	Specify availability as either part of the robotic control panel or as an option

d. Camera/Pan/Tilt/Zoom Power

- Camera/P/T/Z power supplies to be located remotely from the installed camera locations.
- Power supplies/cameras must be switchable on/off at three operator positions in the CT-N Control Room.

PART C INFORMATIONAL DOCUMENTATION REQUIREMENTS

C.1 Administrative Documentation

Respondents shall submit the following documentation. The CGA reserves the right to disqualify any submission which does not include the following documentation. Please note only written Informational Documentation will be accepted.

a. Copies: Submit one (1) original and three (3) copies of your Informational Documentation.

b. Mailing Address: Informational Documentation shall be mailed in a sealed envelope to the following address:

Contracting Group
Office of Legislative Management
Legislative Office Building, Room 5100
300 Capitol Avenue
Hartford, Connecticut 06106

c. Labeled Submissions: The Informational Documentation shall be mailed to the address above in a sealed envelope with the following label attached to the outside of the envelope.

SEALED DOCUMENTATION **TITLE - REQUEST FOR INFORMATION**	CT-N Television Broadcast Cameras, Robotics, and Controls
CONTRACT ID:	JCLM14REG0043
DEADLINE FOR RECEIPT:	April 23, 2014
CONTACT NAME:	Rachel A. Bishop

d. Respondent References: Informational Documentation shall include a list of reference projects of other locations that utilize the equipment in manner similar to that described in this RFI. This list shall include: Name, title, address and telephone number of reference; overview of the project; length of the project; and total fees associated with the project.

e. Pricing Page: Respondents shall complete a Pricing Page for **each** option they submit (Attachment A).

f. Specifications: Respondents shall provide specification sheets for each type of camera, robotic system, and/or controls they recommend, bearing in mind that they may submit Informational Documentation for multiple options, across manufacturers.

g. Recommendations: In the Informational Documentation, Respondents shall provide the following, as it applies to the products they are proposing:

1. Recommend robotic camera systems, consisting of lens, SD/HD camera chassis, and P/T/Z control, either as an integrated unit or as compatible components per Respondent's recommendation, with quick-release mounts. The CGA intends to purchase a minimum of 26 camera systems, and up to a maximum of 44;
2. Recommend safety lanyards/cables for all permanently-installed cameras;
3. Recommend 3 tripod mounts compatible with recommended cameras;
4. Recommend power supplies for each camera and/or robotics system, noting that power supplies will be installed remotely from the camera locations;
5. Recommend 5 Robotic Remote Control Panels, noting that 4 control panels are to be networked and 1 control panel will be stand-alone;
6. Indicate availability of software for remote laptop control of camera P/T/Z and Camera Control Unit (CCU) functions via IP using a web browser;
7. Indicate availability of legislative control software for presetting camera robotics moves; and
8. Indicate options for connecting SD/HD-SDI camera video, camera control for adjustments of camera parameters and control of robotics, from individual camera/robotics locations to the CT-N Control Room.

h. Materials and products: Respondents shall include the following information for each camera system they recommend, as it applies to the products they are proposing:

1. Cameras/Pan/Tilt/Zoom Heads:
   A. Designate whether the recommended camera system utilizes an integrated P/T/Z head or a convertible/box camera with a separate P/T/Z head. Respondents may provide recommendations for either or both approaches;
   B. Indicate availability of software for remote laptop control of P/T/Z and CCU functions (white balance, black balance, gain, pedestal, etc.) via Internet Protocol using a web browser;
   C. Specify if Internet Protocol control, access or programming is available for the recommended robotics platform; and
   D. Specify if an option is available to add more than 50 presets.

2. Remote Control Panels:
   A. Specify if an option is available to control more than 4 cameras;
   B. Specify if an option is available to add more than 12 presets;
   C. Specify if a specialized "legislative control" package is available;
   D. Specify if CCU functions are controlled by the robotics control panel or if a separate panel is required;
   E. Specify method of focus control (joystick, wheel, other);
   F. Specify availability of a preview monitor, either as part of the robotic control panel or as an option; and
   G. Specify any additional equipment required to enable a fully-functional robotic and CCU control system.

3. Camera Pan/Tilt/Zoom Power: Specify any additional equipment needed to allow power supplies/cameras to be switched on and off from the three operator positions in the CT-N Control Room.

4. Cabling: Video/Pan/Tilt/Zoom/CCU Control
   A. Specify medium (cable/fiber optic/hybrid) to successfully transport a high-definition video signal and control all P/T/Z and CCU functions from each camera location to the CT-N Control Room;
   B. The Respondent is responsible for considering the distance of the cable runs involved. Approximate cable run lengths for each location are specified in Section B.1.4 of this RFI;
   C. Specify the recommended fiber optic equipment and patch panel for the CT-N Control Room; and
   D. Specify any additional Evertz fiber optic transmitter/receiver modules required to enable robotic and CCU control from the CT-N Control Room.

i. Presentations: Respondents may be contacted for a time to make presentations to provide an overview of their Informational Documentation, answer questions, and/or provide clarifications. **Respondents may also be asked to provide a demonstration of the equipment, and to leave the equipment on site with CT-N for approximately 2 weeks so that CT-N may perform its own evaluation. Respondents may be asked to come on site for a follow-up presentation with other manufactures or integrators to provide a demonstration of the equipment in an integrated manner.**

PART D EVALUATION OF INFORMATIONAL DOCUMENTATION

D.1 Mandatory Requirements

The CGA will determine if all submissions are complete. The CGA has the sole discretion to decide if submissions are nonresponsive to this RFI.

ATTACHMENT A

PRICING PAGE

CT-N Television Broadcast Cameras,
Robotics, and Controls
JCLM14REG0043

The Connecticut General Assembly
Joint Committee on Legislative Management
Legislative Office Building, Room 5100
Hartford, CT 06106
(860) 240 – 0100
FAX: (860) 240 – 0122

Respondents shall provide specification sheets and approximate list pricing for each recommended solution.

1. SD/HD CAMERA SYSTEM

a. SD/HD Camera $_____

b. Lens $_____ (if not included)

c. Remote Power Supply $_____ (if not included)

d. Safety Lanyard $_____ (if not included)

2. ROBOTICS SYSTEM

a. P/T/Z $_____ (if not included)

b. Robotics Controller $_____

c. Camera Control Unit (CCU) $_____ (if not included)

d. Remote Power Supply $_____ (if not included)

3. OTHER RECOMMENDED EQUIPMENT

a. Item: _____ $_____

b. Item: _____ $_____

c. Item: _____ $_____

d. Item: _____ $_____

e. Item: _____ $_____

This RFI is being issued solely for informational planning purposes. Responses to this notice and prices provided are not considered offers and cannot be accepted to form a binding contract.

Company:			
Address:			
Signature:		Date:	
Name (Printed):		Title:	
Email:		FEIN#:	
Phone #:		Fax #:	